

CLAIMS

What is Claimed Is:

1. A method for updating an internal database associated with a wireless device comprising the steps of:
- (a) receiving a first item of information corresponding to at least one wireless service provider, the wireless service provider being associated with a local calling area;
 - (b) receiving a second item of information related to an autonomous registration event by the wireless device; and
 - (c) transmitting a third item of information to the wireless device in response to the receipt of the second item of information, wherein the third item of information is related to the first item of information.
2. The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step of preparing the first item of information by converting the first item of information into an SMS message.
3. The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step of comparing the second item information with a record in a concerned database.

4. The method for updating an internal database associated with a wireless device according to claim 3, further comprising a step of determining a state of the record.

5. The method for updating an internal database associated with a wireless device according to claim 3, wherein a message for the wireless device is retrieved if a state of the record is equal to a wait state.

6. The method for updating an internal database associated with a wireless device according to claim 1, further comprising a step assembling the third item of information.

7. The method for updating an internal database associated with a wireless device according to claim 6, wherein the third item of information is assembled based in characteristics of the wireless device.

8. The method for updating an internal database associated with a wireless device according to claim 6, wherein the third item of information is an SMS message.

9. The method for updating an internal database associated with a wireless device according to claim 1, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

10. The method for updating an internal database associated with a wireless device according to claim 1, wherein the second item of information is obtained by a probe in communication with at least one SS7 link.

11. The method for updating an internal database associated with a wireless device according to claim 1, wherein the second item of information is obtained by a feed from an STP.

12. The method for updating an internal database associated with a wireless device according to claim 1, further comprising the step of filtering registration messages from raw SS7 data.

13. The method for updating an internal database associated with a wireless device according to claim 1, wherein an entry is created in a pending database after the third item of information has been sent to the wireless device.

14. A method for updating an internal database associated with a wireless device comprising the steps of:

(a) receiving an autonomous registration event by the wireless device; and

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(b) transmitting information to the wireless device in response to the autonomous registration, wherein the information is associated with an identity of at least one local wireless service provider, and wherein the transmitted information is adapted to be used by the wireless device to update the internal database associated with the wireless device.

15. The method for updating an internal database associated with a wireless device according to claim 14, wherein the transmitted information includes information regarding a plurality of identities of local wireless service providers.

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16. The method for updating an internal database associated with a wireless device according to claim 14, wherein the transmitted information assembled based on the type of wireless device.

17. The method for updating an internal database associated with a wireless device according to claim 14, further comprising a step of creating a record in a concerned database wherein the record is associated with a wireless device that has not received the transmitted information.

18. The method for updating an internal database associated with a wireless device according to claim 14, wherein no information is transmitted to the wireless device

the transmitted information includes information regarding a plurality of identities of local wireless service providers.

19. The method for updating an internal database associated with a wireless device according to claim 14, wherein the autonomous registration event is received after raw SS7 data has been filtered.

20. A system for updating an internal database associated with a wireless device comprising:

- (a) a centralized database;
- (b) a pending database adapted to store information related to records of messages that have been sent but no acknowledgement has been received;
- (c) a concerned database adapted to store information related to records of wireless devices that have not yet received updated information; and

wherein the system sends information to a wireless device in response to an autonomous registration by the wireless device.

21. The system according to claim 20, further comprising a history database adapted to store information related to past transactions.

22. The system according to claim 20, further comprising a message database adapted to store portions of SMS messages.

23. The system according to claim 22, wherein the system composes the information sent to the wireless device by retrieving one or more portions of SMS messages from the message database.

24. The system according to claim 20, further comprising means for receiving autonomous registrations from a communications network.

25. The system according to claim 20, further comprising a probe in communication with at least one SS7 link.

26. The system according to claim 20, wherein the autonomous registration is received from a feed from an STP.

27. The system according to claim 20, further comprising a filter adapted to extract registration messages from raw SS7 data.

28. A method for determining successful delivery of an SMS message to a wireless device comprising the steps of:

- (a) receiving a return result from a wireless device;

- (b) determining if the return result is an error;
- (c) if the return result is an error, then determining the total number of errors received and comparing the total number of errors to a predetermined number;
- and
- (d) if the total number of errors equals or exceeds the predetermined number, then associating the wireless device with an unavailable condition in a database if the total number of errors received exceeds the predetermined total.

29. The method according to claim 28, further comprising the step of updating a concerned database with a wait state for a record if the total number of errors is less than the predetermined number.

30. The method according to claim 28, further comprising the step of updating a concerned database with an unavailable state for a record if the total number of errors is greater than or equal to the predetermined number.

31. The method according to claim 28, further comprising the step of updating a concerned database with a done state for a record if the return result is not an error.

32. The method according to claim 28, further comprising the step of updating a history database.

33. A method for determining successful delivery of an SMS message to a wireless device comprising the steps of:

- (a) checking a time stamp of a record in a pending database;
- (b) using the time stamp to determine a total time;
- (c) determining if the total time exceeds a predetermined time period; and
- (d) updating a history database if the total time exceeds the predetermined period.

34. The method according to claim 33, further comprising the step of deleting the record from the pending database.

35. The method according to claim 33, further comprising the step of checking a concerned database to determine the number of attempts that have been made.

36. The method according to claim 35, wherein the record is marked with a wait state if the number of attempts is less than a predetermined number.

37. The method according to claim 36, further comprising the step of updating the history database a second time.

38. The method according to claim 35, wherein the record is marked with a second state if the number of attempts is greater than or equal to a predetermined number.

39. The method according to claim 38, further comprising a step of updating the history database a second time.